## **CLAIMS**

What is claimed is:

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1. A dielectric bias system for communicating a signal between (a) a first electrical device having an output connection to supply the signal and (b) a second electrical device having an input connection to receive the signal, the system comprising:

a first conduction path;

dielectric material positioned along said first conduction path such that transmission of a signal along said first conduction path tends to change the transmission properties of said first conduction path toward a relatively steady state, as said dielectric material is exposed to said signal; and

a means for impressing a bias potential across said dielectric material, the bias impressing means including at least one conductor independent of the first conduction path.

- 2. The dielectric bias system of Claim 1, in which said bias impressing means includes at least two conductors independent of the first conduction path.
- 3. The dielectric bias system of Claim 1 or Claim 2, wherein the bias impressing means includes an external energy source.
- 4. The dielectric bias system of Claim 3, wherein the external energy source is a battery.
- 5. The dielectric bias system of Claim 1, wherein the bias potential impressing20 means is an AC/DC converter.
  - 6. The dielectric bias system of Claim 1, wherein the signal is audio.
  - 7. The dielectric bias system of Claim 1, wherein the signal is video.
  - 8. A dielectric bias system comprising:

a means for communicating a signal between a first electrical device having an output connection to supply the signal, and a second electrical device having an input connection to receive the signal, the communicating means comprising a first conduction path;

a means for receiving a bias potential, the receiving means associated with the first conduction path;

a dielectric associated with the receiving means; and

a means for impressing the bias potential across a selected portion of the receiving means such that the bias potential is impressed across the dielectric, the bias potential impressing means associated with a second conduction path independent of the first conduction path.

9. A dielectric bias system comprising:

a means for communicating an electrical signal along a signal path connectable between a first electrical device having an output connection to supply the electrical signal, and a second electrical device having an input connection to receive the electrical signal, the communication means including;

- a first conductor defining the signal path;
- a second conductor;

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- a dielectric associated with the first and the second conductor; and
- a means for impressing a bias potential across the dielectric such that the bias potential is not a source of current in the signal path.
- 10. A system for communicating a voltage varying electrical signal along a signal path between electrical devices, including:
  - a first conductor defining a signal path for communicating the electrical signal;
  - a second conductor independent of the first conductor;

a dielectric associated with the first and second conductors; and

an external energy source for electrically biasing the dielectric such that the bias is not a source of current in the signal path.

- 11. The system of Claim 10, wherein the external energy source is a battery.
- 12. The system of Claim 10, wherein the external energy source is an AC/DC converter.
  - 13. The system of Claim 10, wherein the signal is audio.

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- 14. The system of Claim 10, wherein the signal is video.
- 15. The system of Claim 13, wherein the first and second conductors and dielectric are part of an audio cable, and said external energy source is mounted on said cable.
  - 16. The system of Claim 14, wherein the first and second conductors and dielectric are part of a video cable, and said external energy source is mounted on said cable.
    - 17. A method of biasing a dielectric comprising the steps of:

providing a dielectric bias system having a means of communicating a voltage varying electrical signal along a signal path between electrical devices, the communicating means including a first conductor defining the signal path for communicating the electrical signal; a second conductor; a dielectric associated with the first conductor and the second conductor; an external source for impressing a bias across the dielectric;

impressing the bias potential across the dielectric such that the bias potential is not a source of current in the signal path;

supplying the voltage varying electrical signal between the electrical devices; removing the voltage varying electrical signal between the electrical devices; and maintaining the bias potential impressed across the dielectric.

- 18. The method of Claim 17, wherein the bias potential impressing mean is a battery.
- 19. The method of Claim 17, wherein the signal is audio.

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- 20. The method of Claim 17, wherein the signal is video.
- 21. The method of Claim 19, wherein the communicating means is an audio cable.
- 22. The method of Claim 20, wherein the communicating means is a video cable.
- 23. A method of maintaining relatively steady electrical state within cables for stereo speakers, interconnects, and the like, including the steps of:

providing a cable having a first path for transmitting a signal across the cable, said cable including dielectric material positioned along at least some portion of the first path;

providing at least one conductor which is not in the first path, said at least one conductor operatively positioned adjacent at least a portion of said dielectric material; and applying an energy source to said at least one conductor.

- 24. The method of Claim 23, in which said step of applying an energy source is accomplished by a battery operatively affixed to the cable.
- 25. A method of cable "run-in" for effectively turning a cable into a non-discharging capacitor, including the steps of:

providing a cable having a signal path and dielectric material associated with that path; applying a bias potential to the dielectric material from an energy source other than the signal; and

20 maintaining that application of bias potential from said other energy source independent of the signal.